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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:21 ; Search time 210.42 Seconds  
(without alignments)  
6.500 Million cell updates/sec

Title:	US-09-331-631A-8_COPY_80_119
Perfect score:	225
Sequence:	1 PEDPQRNYEECCQECRQDEERQPPCCQQRCLKRFEEQQQ 40

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%
                  Maximum Match 100%
                  Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	225	100.0	590	19	W62832	Gossypium hirsutum
2	119	52.9	525	19	W62831	Theobroma cacao am
3	119	52.9	566	19	R20181	Sequence encoded b
4	114	50.7	666	19	W62838	Macadamia integrifl
5	112	49.8	625	19	W62830	Macadamia integrifl
6	112	49.8	666	19	W62829	Macadamia integrifl
7	82	36.4	371	20	W73369	Epilpote tagged TBE
8	77.5	34.4	2023	21	V54350	Amino acid sequenc
9	76.5	34.0	2074	21	V54319	Amino acid sequenc
10	75	33.3	910	20	V22191	Mouse brain CNG-1
11	73	32.4	86	20	W95073	GST-HD fusion prot
12	73	32.4	86	20	W95078	GST-HD fusion prot

[illegible]

## ALIGNMENTS

XX	RESULT	1
XX	ID	W62832
XX		W62832 standard; Protein; 590 AA.
XX	AC	W62832;
XX	DT	27-OCT-1998 (first entry)
XX		
XX	Gossypium	hirsutum antimicrobial protein.
XX		
XX	antimicrobial	protein; Infestation; control.
XX	Gossypium	hirsutum.
XX	OS	
XX	PN	W09827805-A1.
XX	PD	02-JUL-1998.
XX	PF	22-DEC-1997; 97WO-AU00874.
XX	PR	20-DEC-1996; 96AU-0004275.
XX		
XX	(RETR-)	COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX		
XX	Bower NI,	Goulter KC, Green JL, Manners JM, Marcus JP;
XX	DR	WPI; 1998-377279/32.
XX		
XX	Novel anti-microbial	protein from e.g. Macadamia integrifolia -
XX	useful for controlling	microbial infestations of plants or mammals
XX	Claim 1;	Page 49-51; 96pp; English.
XX		
XX	The sequence is that of an antimicrobial protein which can	
XX	be used to control microbial infestations in plants and mammalian	
XX		





XX	
DT	12-FEB-1999 (First entry)
XX	
DE	Epitope tagged TBP protein.
XX	
KW	TATA-box binding protein; epitope-tagged TBP; transcription complex; TAF;
KM	TBP associated factor; TAF-interaction factor; gene expression regulator.
XX	
OS	Homo sapiens.
OS	Synthetic.
PN	EP881288-A1.
XX	
PD	02-DEC-1998.
XX	
PX	
PF	26-MAY-1998; 98EP-0109516.
XX	
PR	26-MAY-1997; 97EP-0108433.
XX	
PA	(FARH ) HOECHST AG.
XX	
PI	Berglund E, Kirschbaum B, Meisterernst M, Poltes G;
XX	
DR	WPI; 1999-001394/01.
XX	
PT	Transgenic animal expressing epitope-tagged TATA-box binding protein
PT	- for isolating higher-order transcription complexes and specific
PT	factors that associate with the protein, useful as potential
PT	therapeutic agents
XX	
PS	
XX	
XX	Claim 5; Page 20-22; 38pp; English.
CC	This sequence represents an epitope-tagged TATA-box binding protein (TBP)
CC	that is expressed by the transgenic non-human animals of the invention.
CC	The animals are used to produce TBP. TBP is used to isolate and
CC	characterise higher-order transcription complexes (from different tissue
CC	and cell types), optionally at different developmental stages). It is also
CC	used to identify new and/or specific TBP associated factors (TAFs,
CC	e.g. transcription factors, activators or inhibitors) and TAF-interaction
CC	factors, and to raise antibodies against TBP. The TAFs may be useful for
CC	regulating gene expression, e.g. disease-related genes, so are potential
CC	pharmaceuticals, also for identifying human analogues for use in drug
CC	screening. The antibodies are used for affinity purification of TBP and
CC	its complexes. TBP can isolate transcription complexes from a wide
CC	variety of different tissues and cells (contrast known methods that are
CC	limited to isolation from a particular cell type).
XX	
XQ	Sequence 371 AA;
XX	

Query Match 36.4%; Score 82; DB 20; Length 371;  
Best Local Similarity 41.0%; Pred. No. 0.056;  
Matches 16; Conservative 14; Mismatches 9; Indels 0; Gaps 0;

QY 2 EDPQRHYEECCOECRQGEERQQPCOCQCLKRFEDDEQQ 40  
| : | | : : | : | : | | | | : : : | : ||||  
DB 85 eeqqrqgqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq 123

RESULT	8
Y54320	
ID	Y54320 standard; Protein, 2023 AA.
XX	
AC	Y54320;
XX	
DT	06-APR-2000 (first entry)
XX	
DE	Amino acid sequence of a human PCTG4 protein.
XX	
XX	Human; PCTG4 region; X chromosome; q13 region; polymorphism;
KW	mental retardation; autism; depression; bipolar affective disorder
KW	hypothyroidism; OPA gene; neuropsychiatric disorder.
XX	

OS Homo sapiens.  
XX  
PN W09955915-A2.  
XX  
PD 04-NOV-1999.  
XX  
PE 29-APR-1999; 99WO-US09365.  
XX  
PR 29-APR-1998; 98US-0083465.  
XX  
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
PA (IOWA ) UNIV IOWA RRS FOUNDD.  
XX  
PI Philibert RA, Gims ET;  
XX  
DR WPI; 2000-126357/11.  
XX  
PT Identification of polymorphisms in the PCYC4 region of Xq13 for  
PT diagnosing mental retardation or autism -  
XX  
XS Example 7.; Page 81-84; 100pp. English.

CC The present sequence represents a human PC7G4 protein. Polymorphisms  
CC in the human PC7G4 region of chromosome Xq13 are associated with  
CC mental retardation, autism, depression, bipolar affective disorder or  
CC hypothyroidism. One 12 bp insertion polymorphism occurs within the  
CC coding region of the human OPA gene, and introduces a 4 amino acid  
CC insertion in a putative OPA domain. This domain has been shown to be  
CC involved in tissue specific expression. Another polymorphism consists  
CC of a pentanucleotide repeat approximately 7 kb upstream of the 12 bp  
CC polymorphism. Another polymorphism consists of a dinucleotide repeat  
CC approximately 4.5 kb downstream of the 12 bp polymorphism. The  
CC specification describes a method for screening for polymorphisms in a  
CC PC7G4 nucleic acid sequence obtained from a subject. The PC7G4 related  
CC sequences within the q13 region of the X chromosome have polymorphisms  
CC associated with neuropsychiatric disorders. The methods can be used to  
CC screen for the presence of a heritably linked form of mental retardation,  
CC autism, depression, bipolar affective disorder or hypothyroidism.  
XQ Sequence 2023 AA:

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Q7      1 PEDPGRKKEECQCECRQERQ-----PQCQGRKLKFEDRQQ 40
Db      1896 pcdqgqqqqqqqqqqqqqqqqqqqlhtlrgqqqqallltgqqqqqq 1944
          Matches   17; Conservative   14; Mismatches   9; Indels   9; Gaps   1;
Query Match Similarity    34.4%; Score 77.5; DB 21; Length 2023;
Best Local Similarity     34.7%; Pred. No.0.87;

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RESOLUTION	PROTEIN	AA
Y54319	standard; Protein;	2074

DT	06-APR-2000	(first entry)
XX		
DE	Amino acid sequence of a murine PCNG4 protein.	
XX		
KW	Human; PCNG4 region; X chromosome; q13 region; polymorphism;	
KW	mental retardation; autism; depression; bipolar affective disorder	
KW	hypothyroidism; OPA gene; neuropsychiatric disorder.	
XX		
OS	Mus sp.	
XX		
PN	W09955915-A2.	
XX		
PD	04-NOV-1999.	
XX		
PF	29-APR-1999;	99WO-US09365.
XX		



XX	01-AUG-1997;	97EP-0113320.
XX	(PLAC )	MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
XX	Bates G, Lehnach H, Scherzinger E, Wanker E;	
XX	WPI: 1999-153955/13.	
DR		
XX		
PT	Detecting amyloid-like fibrils or protein aggregates insoluble in	
PT	detergent or urea - from their retention on a filter, used for	
PT	diagnosis, particularly of diseases associated with polyglutamine	
PT	expansion	
XX		
PS	Disclosure: Fig 8; 56pp: English.	
XX		
CC	The invention relates to the detection of amyloid-like fibrils or protein	
CC	aggregates, insoluble in detergents or urea. The method comprises: (a)	
CC	applying material suspected of containing protein aggregates to a filter;	
CC	and (b) detecting retention of protein aggregates on the filter. This	
CC	method also helps to identify inhibitors of protein aggregates formation.	
CC	The method is particularly used to detect protein aggregates that are	
CC	indicative of disease, for assessing onset or progression of the	
CC	diseases. The inhibitors identified are potential therapeutic agents for	
CC	treating the diseases. Other applications include detection of inclusion	
CC	bodies in bacteria and to study kinetics of aggregate formation. Diseases	
CC	associated with polyglutamine expansion are particularly diagnosed, e.g.	
CC	Huntington's, Alzheimer's or Parkinson's diseases; spinal and bulbar	
CC	muscular atrophy; spinocerebellar ataxia; systemic amyloidosis; type II	
CC	diabetes; bovine spongiform encephalopathy; kuru; familial insomnia;	
CC	scrapie. The protein aggregates can now be detected simply, routinely and	
CC	rapidly, without requiring sophisticated equipment. The method can be	
CC	made quantitative, by analysing a series of dilutions, and can be	
CC	automated to allow many samples to be analysed on the same filter.	
CC	Sequences W95072-75 represent GST-HD fusion proteins.	
XX		
SQ	Sequence 86 AA:	
Query Match	32.4%; Score 73; DB 20; Length 86;	
Best Local Similarity	35.9%; Pred. No. 0.14;	
Matches 14; Conservative 15; Mismatches 10; Indels 0; Gaps 0;		
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Db	25 qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq 63	
RESULT 12		
W95078		
ID	W95078 standard; Protein; 86 AA.	
XX		
AC	W95078;	
XX		
DT	20-MAY-1999 (first entry)	
DE	GST-HD fusion protein GST-HD5IDELP.	
XX		
XX	Fusion protein; amyloidogenic polypeptide; amyloid-like fibril; scrapie;	
KW	protein aggregate; Alzheimer's disease; CAG-repeat expansion; spinal;	
KW	Huntington's disease; bulbar muscular atrophy; spinocerebellar ataxia;	
KW	detractoral pallidolysian atrophy; Creutzfeld-Jakob disease; enzyme;	
KW	GST-HD; HD.	
XX		
XX	Synthetic.	
OS	Homo sapiens.	
XX		
XX	Key	Location/Qualifiers
FT	Misc-difference 1	
FT	/note= "this residue is connected to a GST protein	
FT	which is not indicated in the sequence"	
XX		
XX	W09906545-A2.	

PD	11-FEB-1999.
PF	31-JUL-1998; 96WO-EP04811.
PR	01-AUG-1997; 97EP-0113306.
PA	(PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
PB	Bates G, Lehrach H, Scherzinger E, Wanker E;
DR	WPI; 1999-153775/13.
PT	Composition containing fusion protein that includes amyloidogenic peptide - able to self-assemble into fibrils or aggregates, used to detect and monitor neuronal diseases, and also to screen for therapeutic inhibitors
PS	Disclosure; Fig 8; 62pp; English.
XX	The invention relates to a composition comprising a fusion protein of (1)
CC	(poly)peptide that increases solubility and/or prevents aggregation of fusion protein, and (11) amyloidogenic (poly)peptide that can self-
CC	assemble into amyloid-like fibrils or protein aggregates. Host cells transformed with a vector containing the nucleic acid encoding the fusion protein are used for the recombinant expression of the fusion protein.
CC	The composition is used to detect onset and progression of diseases associated with fibrils/protein aggregates. It is potentially useful for treatment of such diseases (e.g. Alzheimer's disease, scrapie or CAG-repeat expansion conditions such as Huntington's disease (HD), spinal and bulbar muscular atrophy, dentatorubral pallidoluysian atrophy,
CC	spinocerebellar ataxia, Creutzfeldt-Jakob disease). Assay methods based on release of the amyloidogenic polypeptide from fusion protein have a precise starting time for aggregate formation, allowing kinetic measurements, and use of an enzyme for cleavage allows testing under physiological conditions. Sequences W95077-80 represent GST-HD fusion proteins.
CC	
SQ	Sequence 86 AA:
OY	Query Match 32.4%; Score 73; DB 20; Length 86; Best Local Similarity 35.9%; Pred No. 0.14;
DG	Matches 14; Conservative 15; Mismatches 10; Indels 0; Gaps 0;
DB	2 EDPPRRRECEODERQOEKROEQPCOQRCLKRFEDQDQ 40 : I:::II::I::I::I::I::I::I::I::I::I::I:: 25 qgqggqggqggqggqggqggqggqggqggqggqggq 63
RESULT 13	
ID	W95075
AC	W95075 standard; Protein; 94 AA.
XX	
XX	W95075;
DT	20-MAY-1999 (first entry)
DE	GST-HD fusion protein GST-HD5IDELPBLO.
XX	
XX	Amyloid-like fibril, protein aggregate; inhibitor; inclusion body;
KV	polyglutamine expansion; Huntington's disease; Alzheimer's disease; HD;
KV	Parkinson's disease; spinal; bulbar muscular atrophy; type II diabetes;
KV	systemic amyloidosis; spinocerebellar ataxia; kuru; familial insomnia;
KV	bovine spongiform encephalopathy; kuru; scrapie; GST-HD; fusion protein.
OS	Synthetic.
OS	Homo sapiens.
XX	
FH	Key location/Qualifiers
FT	Misc-difference 1 /note= "this residue is connected to a GST protein
XX	which is not indicated in the sequence"

PN	XX		W09906838-A2.
PD	XX	11-FEB-1999.	
PF	XX	31-JUL-1998;	98WO-EP04810.
PR	XX	01-AUG-1997;	97EP-0113320.
PS	XX	(PLAC ) MAX PLANCK GRS FOERDERUNG WISSENSCHAFTEN.	
PT	XX	Bates G, Lehrach H, Scherzinger E, Wanker E;	
PP	XX	WPI. 1999-153955/13.	
PP	XX	Detecting amyloid-like fibrils or protein aggregates insoluble in detergent or urea - from their retention on a filter, used for diagnosis, particularly of diseases associated with polyglutamine expansion	
PP	XX	Disclosure: Fig 8; 56pp: English.	
PP	XX	The invention relates to the detection of amyloid-like fibrils or protein aggregates, insoluble in detergents or urea. The method comprises: (a) applying material suspected of containing protein aggregates to a filter; and (b) detecting retention of protein aggregates on the filter. This method also helps to identify inhibitors of protein aggregates formation. The method is particularly used to detect protein aggregates that are indicative of disease, for assessing onset or progression of the diseases. The inhibitors identified are potential therapeutic agents for treating the diseases. Other applications include detection of inclusion bodies in bacteria and to study kinetics of aggregate formation. Diseases associated with polyglutamine expansion are particularly diagnosed, e.g. Huntington's, Alzheimer's or Parkinson's diseases; spinal and bulbar muscular atrophy; spinocerebellar ataxia; systemic amyloidosis; type II diabetes; bovine spongiform encephalopathy; kuru; familial insomnia; scrapie. The protein aggregates can now be detected simply, routinely and rapidly, without requiring sophisticated equipment. The method can be made quantitative, by analysing a series of dilutions, and can be automated to allow many samples to be analysed on the same filter. Sequences W95072-75 represent GST-HD fusion proteins.	
PP	XX	Sequence 94 AA:	
PP	XX	Query Match 32.4%; Score 73; DB 20; Length 94;	
PP	XX	Best Local Similarity 35.9%; Pred. No. 0.15;	
PP	XX	Matches 14; Conservative 15; Mismatches 10; Indels 0; Gaps 0	
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OY		: 1:: :: 11: :11::11 1 11: :: 11:111	
Db		25 qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq 63	
RESULT 14			
ID	W95080	standard; Protein; 94 AA.	
AC	W95080:		
DT	20-MAY-1999	(first entry)	
DE	GST-HD fusion protein GST-HDSIDELPBlo.		
KW	Fusion protein: amyloidogenic polypeptide; amyloid-like fibril; scrapie; Huntingtton's disease; Alzheimer's disease; CAG-repeat expansion; spinal; dentatorubral pallidoluysian atrophy; Creutzfeld-Jakob disease; enzyme; GST-HD; HD.		
OS	Synthetic.		
OS	Homo sapiens.		
CH	Key	Location/Qualifiers	

FT	Misc-difference 1	/note= "this residue is connected to a GST protein which is not indicated in the sequence"
FT		
PN	W09906545-A2.	
PD	11-FEB-1999.	
XX		
PF	31-JUL-1998; 98WO-EP04811.	
PR	01-AUG-1997; 97EP-0113306.	
XX		
PA	(PLAC ) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.	
XX		
P1	Bates G, Lehrach H, Scherzinger E, Manker E;	
DR	WPI; 1999-153775/13.	
XX		
PT	Composition containing fusion protein that includes amyloidogenic peptide - able to self-assemble into fibrils or aggregates, used to detect and monitor neuronal diseases, and also to screen for therapeutic inhibitors	
PT		
XX		
PS	Disclosure: Fig 8; 62pp; English.	
XX		
CC	The invention relates to a composition comprising a fusion protein of (1)	
CC	(poly)peptide that increases solubility and/or prevents aggregation of	
CC	fusion protein, and (ii) amyloidogenic (poly)peptide that can self-	
CC	assemble into amyloid-like fibrils or protein aggregates. Host cells	
CC	transformed with a vector containing the nucleic acid encoding the fusion	
CC	protein are used for the recombinant expression of the fusion protein.	
CC	The composition is used to detect onset and progression of diseases	
CC	associated with fibrils/protein aggregates. It is potentially useful for	
CC	treatment of such diseases (e.g. Alzheimer's disease, scrapie or CAG-	
CC	repeat expansion conditions such as Huntington's disease (HD), spinal and	
CC	bulbar muscular atrophy, dentatorubral pallidoluysian atrophy,	
CC	spinocerebellar ataxia, Creutzfeldt-Jakob disease). Assay methods based on	
CC	release of the amyloidogenic polypeptide from fusion protein have a	
CC	precise starting time for aggregate formation, allowing kinetic	
CC	measurements, and use of an enzyme for cleavage allows testing under	
CC	physiological conditions. Sequences W95077-80 represent GST-HD fusion	
CC	proteins.	
SQ	Sequence 94 AA:	
XX		
Query Match	32.4%; Score 73; DB 20; Length 94;	
Best Local Similarity	35.9%, Pred. No. 0.15;	
Matches 14; Conservative 15; Mismatches 10; Indels 0; Gaps 0		
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ID	y58633 standard; Protein; 1299 AA.	
XX	y58633.	
AC	y58633;	
XX		
DT	11-APR-2000 (first entry)	
XX		
DE	Protein regulating gene expression PRGE-26.	
XX		
KW	Protein regulating gene expression; PRGE-26; human; cell proliferation; antiproliferative; inflammation; antiinflammatory; therapy; diagnosis.	
KM		
XX		
OS	Homo sapiens.	
XX		
Key	Location/Qualifiers	
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TH		
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FT Modified-site /note= "N-glycosylated"

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W09964596-A2.
16-DEC-1999.
11-JUN-1999; 99WO-US13281.
12-JUN-1998; 98US-0089029.
29-JUL-1998; 98US-0094575.
14-OCT-1998; 98US-0104624.
( INCY- ) INCYTE PHARM INC.
Lal P, Yue H, Tang YT, Hillman JL, Bandman O, Corley NC;
Guegler KJ, Gorgone GA, Baughn MR, Patterson C, Lu DM;
WPI: 2000-116543/10.
N-PSDB: Z57864.
New human polypeptides that regulate gene expression, for treatment,
prevention and diagnosis of, e.g. cancer -
Claim 1; Page 110-113; 150pp; English.
XX The present sequence is that of new human protein regulating gene
XX expression PRGE-26, deduced from incyte clone PITUNO701 (see 257864)
XX isolated from pituitary gland cDNA library. PRGE-26 is expressed in
XX reproductive, nervous and gastrointestinal tissues associated with
XX cell proliferative and inflammation diseases, disorders or conditions.
XX It is characterised as a glutamine-rich protein. The invention
XX provides PRGE polypeptides (see Y58608-38) and polynucleotides (see
XX Z57839-69), expression vectors, host cells, antibodies, agonists and
XX antagonists. It also provides methods for diagnosing, treating or
XX preventing disorders associated with expression of PRGE.
SQ Sequence 1299 AA;

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Query Match 32.2%; Score 72.5; DB 21; Length 1299;
Best Local Similarity 41.0%; Pred. No. 2;
Matches 16; Conservative 11; Mismatches 11; Indels 1; Gaps 1;

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Fri Mar 2 09:30:50 2001

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Page 9

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Db      878 eeearKrkalevy-rqkelmrgrqgqgealrrlqqgqg 915

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Search completed: March 1, 2001, 15:47:23
Job time: 248 sec
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